

To the members of the Federal Communications Commission:

I'm writing to urge you to open up currently unused parts of the TV spectrum (the "white spaces") for wireless broadband and other emerging technologies. I applaud the extraordinary steps the Commission has taken to realize the potential of TV white spaces to date, and encourage you to take the next step today.

The potential benefits of freeing up this important public resource, more than three-quarters of which today is unused, are overwhelming.

The white spaces can:

- * Pave the way for universal wireless broadband access;
- * Extend broadband wireless to rural areas that currently aren't connected at all;
- * Enhance the reliability of public safety communications;
- * Enable distance learning for students in remote locations or for whom traditional classroom-based learning is impractical; and,
- * Bring high-speed mobile internet access to every high school and middle school in the country.

Opening up unused TV spectrum might be one of our best remaining chances to address the digital divide by creating affordable and truly universal broadband wireless coverage in the U.S.. I urge you to take this rare opportunity to connect millions more people to the Internet.

Monopolists control the airwaves. When the bill of rights was written, if there was anything other than print or speech at the time, don't you think they would have simply, and properly given the people the right to communicate freely? Covering all forms of communication not just speech and print.

The fact remains that these devices can easily work, to be location and spectrum aware to not use bands already in use. Your ordinary cordless telephone (which is an unlicensed band device) is able to hop to a channel that is not in use by other nearby cordless phones, same with WiFi, same with cell phones. The technology has been completely and totally proven many times over. Only the restrictions put in place and the limited range and spectrum made available to unlicensed usage prevents wide spread, service free broadband access.

Cell phones in particular are the prime example. Each cell phone is capable of using any of hundreds of frequencies within their band. When active on the network it establishes a channel with the cell site and no other cell phone in that cell site will use it. Meanwhile two cell sites over, another phone can reuse the same frequency. As one approaches the cell site the signal strength goes up, and the device reduces power output, so as to not propagate too far outside of the range (and save power). All that is needed is to reduce the cell site's function down to the user's device level by GPS location addressing. If the devices are able to handle more traffic than the end user devices actually consumes, then as more devices are purchased and in use, more bandwidth, access points, channels and routes become available. The higher the density of sites and devices, the lower power and shorter ranges that need to be utilized. This is a network we would never outgrow.

I personally, have released much of this potential system including specifications, the necessary protocols, and general designs, into the public domain. If utilized as an open standard, there need be no IP restrictions on its implementation. Communication security would be greatly enhanced as it would tie the end points to physical locations that can not be faked or forged (without a worldwide 'ghost' GPS System, and questionable even then if it could since you can not fake the timing of radio signals). Imagine no more spoofing, imagine no more hijacked websites, no more dependence upon wired networks, the benefits are overwhelming! The system would ensure security and privacy through the uniqueness of location and the unpredictable dynamic nature of a mesh network, yet remain completely reliable and trustworthy, as the personal physical location information does not have to leave the network and enter a computer. The FCC could turn around a reallocation of spectrum usage in days instead of months and years, simply by providing an updated power spectrum table to the devices, without obsoleting the devices. All digital EM Spectrum devices could eventually adopt this method of operation and create a truly universal, ubiquitous, free wireless network, for all to use freely, at the same time reduce power usage, and provide a fault tolerant emergency network, etc. Even TV and satellite broadcasts could be carried over such a network. (A network should by design not care what it transports).

By creating unlicensed bands, and a device specifications that can allow for

r updating the power spectrum usage, the FCC could actually manage EM spectrum usage in near realtime. People could by a home based device, that is basically akin to a cell site, that would 'keep track' of all their personal wireless devices (through the location based mesh network), and provide all of their wireless services, including voice, broadband, and digital TV service, among the many other possible uses we havent even thought of yet. The NAB and such could go back to being content providers instead of gatekeepers. As long as they create and broadcast content that people want, they will still have a commodity and method for acquiring advertising dollars.

You would think that the NAB would actually get behind this so that they would not have to pay the exorbitant fees for licensing spectrum, since it would actually create an unlimited number of channels for them to broadcast upon, but perhaps its not about the business of broadcasting, its about monopoly, greed and control. Only through maintaining the airwaves as a limited resource, can they charge the huge amounts of money for airtime, that they use to control public awareness. This control is bought and sold by politicians and industries to advance their own agendas, against the common sense of the people. This requires the huge amounts of money and thus almost ensures corruption in our leaders.

Conclusion: The FCC is the place to start to make this a free country again, to return to true democracy, with an informed people, for the people, by the people. Free the airwaves, free the communication, and you will free your minds!

Please feel free to contact me if you want the full specifications. This is too important to be locked away in patents.

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